IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **Jarrett et al.**	)	Examiner: **Sean McGarry**
	)	
Application No. **09/242,843**	)	
	)	
Filed: **18 November 1999**	)	Group Art Unit: **1635**
	)	
For: **Pesticidal Agents**	)	

DECLARATION OF Dr Janey Henderson,

I, **Dr Janey Henderson,** hereby declare as follows.

1. I am presently head of Department of Biological and Molecular Sciences in the Faculty of health and Life Sciences at Coventry University, which position I have held since 2005. Before this, I was Head of Biological and Molecular Sciences since 2004 in the School of Science and the Environment at Coventry University. Previous to this, I was Head of Cell and Molecular Biosciences at Coventry University, which position I held between 2001 and 2004.

2. I received a Bachelor of Science degree (Hons, 2.1) in Botany conferred on me from the University of Aberdeen; and the degrees of Master of Science in Pollution and Environmental Control conferred on me from Manchester University, and Doctor of Philosophy conferred on me from Durham University. From 1986 to 1989 I was a research fellow at University of Warwick. From 1989 to 1991 I was a research fellow at the University of Oxford. Between 1991 and 1995 I worked at the Institute of Virology in Oxford and Oxford Brookes University. Since 1995 I have worked at Coventry University, initially as a Senior lecturer in Biosciences before heading the Cell/Biological and Molecular Sciences sections within the School of Science and the Environment. As well as my role as Head of Department and other administrative roles, I am active in undergraduate teaching and post-graduate MSc and PhD research projects. I am a Consultant Editor for the international Journal of Cytotechnology; have served on the International Advisory Board for the International Journal of Plant Sciences, Annals of Botany, a committee member of the Education and Training Committee, Institute of Biology; member of the Institute for Learning and Teaching in Higher Education (Higher Education Academy); a member of Society for Experimental Biology; member of the Institute of Biology; member of the Biochemical Society; external examiner for both undergraduate and postgraduate qualifications; and, currently serve on a range of national committees.
   I am the author or co-author of many original publications including book chapters, and I have presented papers at many international meetings. In the course of my professional activities I attend national and international conferences relevant to my field of research and interest. At such conferences I meet with colleagues from the UK and abroad. This affords me the opportunity to discuss and familiarise myself with the current state of the art and new developments, both conceptual and technological. My research interests include: Anti-cancer properties of fungal lectins: role of lectins in the treatment of bowel cancer; Phytomedicinal plants and fungi; flavour biogenesis in the edible mushroom; heterologous protein expression; improving food quality; and, The use of the phage display technology to identify molecular targets for natural substances with health benefits. My molecular and cell biology background therefore establishes my credibility in this technical field.

My curriculum vitae is attached to this declaration.

3. I have read and understood the disclosure made in the above-referenced U.S. Patent Application Serial No. 09/242,843, entitled "Pesticidal Agents" (referred to hereinafter as "the present application"), the pending claims of which are currently rejected in the U.S. Patent and Trademark Office.

4. I have read and am familiar with the Official Action dated 25 November 2005, in the present application. I understand the nature of the rejection made by the Examiner on page 2 onwards of the Official Action concerning an alleged failure to meet the requirements of USC112 first paragraph. It is the Examiner's position that, notwithstanding the disclosure in the specification of *inter alia* SEQ ID NO: 1, and of the results obtained by the use thereof, and of methods of defining regions of the DNA encoding proteins responsible for toxic activity, the specification does not reasonably convey to one skilled in the art that the inventors had possession of claimed invention at the filing date.

5. Further it is the examiner's position that the post-filing publication "Sequence Analysis of Insecticidal Genes from *Xenorhabdus nematophilus* PMFI296" (Morgan *et al.*. Applied and Environmental Microbiology May 2001 p 2062-2069) makes it appear that "much experimentation" was performed to determine what protein(s) provided for insecticidal activity. I disagree with these allegations for the reasons set forth in the following paragraphs.

6. The specification discloses the DNA sequence of an approximately 40kbp plasmid, which conferred insecticidal activity when present in a laboratory strain of *Esherichia coli.* (see Example 7 and Example 8). The specification further discloses methods of isolating fragments of the DNA which encode pesticidal agents (see page 8 onwards, for example). **Given the disclosure of the specification** I believe that at the date of filing (1997) it would have been routine and straightforward for one skilled in the art to locate the areas (genes) on the cosmid that were responsible for the demonstrated insecticidal activity. For example a person skilled in the art could have carried out transposon mutagenesis of the cosmid, using commercially available kits for example, Primer Island kit (Applied Biosystems) or the EZ::Tn5™ Transposon (Cambio). The use of these kits simply involves the mixing of the kit's reagents with the cosmid. Subsequently, the mixture would be transformed into *E. coli* by any routine transformation method. In this case, I would expect that a 100 *E. coli* transformants would be sufficient to be screened. Screening would involve growing individual strains in small volumes of routine media (e.g. Lauria Broth) at 30°C for 16 hours. Subsequently small amounts of the culture would be spread on pots containing commercially available insect diet and the susceptible insect (in this case *Pieris* brassicae larvae) would be added. After 24 hours incubation at 25 °C, those pots in which the larvae remained alive would be selected. The selected clones would have their cosmids extracted and sequenced using primers homologous to the flanks of the transposon, in order to ascertain the location of the transposon insertion. Such cosmid extraction and sequencing would be a routine task for any one skilled in the art and could typically be done in a day.

7. In addition, from the sequence of the cosmid, freely available computer program can identify open reading frames, which could potentially code for proteins. Hence, the sequence data from the transposons in those cosmids that no longer confer insecticidal activity would identify the genes(s) responsible for such activity. The whole process would take little over a week and uses tools and reagents that are all commercially available and would be trivial for anyone skilled in the art. Therefore, the step of identifying the genes responsible for insecticidal activity on a 40 kbp cosmid would not require any novel advances or special techniques and reagents and could be routinely carried out by any one skilled in the art.

8. I have also read and understand the nature of the rejection made by the Examiner on page 8 onwards of the Official Action concerning an alleged failure to meet the requirements of USC112 first paragraph. It is the Examiner's position that the disclosure in the specification does not enable one skilled in the art to make or use the claimed invention.

9. I also disagree with these allegations, essentially for the reasons set forth in the paragraphs above.

10. I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so make are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such wilful statements may jeopardize the validity of the above-referenced application or any patent issued thereon.

Dated: 24/04/06.

Signature: J. Henderson.

CURRICULUM VITAE

NAME: Dr Janey HENDERSON BSc(Hons) MSc PhD CBiol MIBiol ILTM

EDUCATION AND QUALIFICATIONS:

78 - 82	BSc (Hons) Botany, University of Aberdeen
82 - 83	MSc Pollution and Environmental Control, Manchester University
83 - 86	Ph.D. Protein deposition in developing barley endosperm Durham University (in collaboration with Rothamsted Experimental Station, Harpenden).
98 – 99	PGC Postgraduate Certificate in Learning and Teaching, Coventry University, SEDA Accredited
04 – 05	Institute of Leadership and Management Introductory Certificate in First Line Management
05 – 06	Certificate in Change and Project Management (Coventry University)

EXPERIENCE:

86 - 89	Post-doctoral Research Fellow, Plant Molecular Biology Warwick University
89 - 91	Research Fellow, Molecular Virology, Oxford University
91 - 92	Higher Scientific Officer, Plant Virology, NERC Institute of Virology and Environmental Microbiology, Oxford
92 - 95	Post-doctoral Cell Biologist, Oxford Brookes University
95 – 01	Senior Lecturer in Biosciences, Coventry University
01 – 04	Head of Department of Cell and Molecular Biosciences (Biological Sciences / Biomedical Sciences / Forensics) School of Science and the Environment, Coventry University
04 – 05	Head of Department of Biological and Molecular Sciences, (Biological Sciences / Biomedical Sciences / Forensics) School of Science and the Environment, Coventry University.
05- present	**Head of Department Biological and Molecular Sciences,** (Biological Sciences / Biomedical Sciences / Forensics / Chemistry) **(Senior Management Spine)** **Faculty of Health and Life Sciences, Coventry University**

AREAS OF EXPERTISE:

Cell and Molecular Biology, & Biotechnology
Molecular Biotechnology
Molecular Characterization

Molecular Biology
Cell Signalling / protein targeting
Plant Transformation
Cell Biology

CURRENT ADMINISTRATIVE RESPONSIBILITIES:

Head of Department of Biological and Molecular Sciences (responsible for 20 full-time academic staff – 11 Biologists, 9 Chemists)
Role as Head includes managing staff, the student experience; course delivery (UG, PG, short course and CPD); curriculum development, marketing and recruitment; retention and progression; quality assurance; quality monitoring; student support; liaison with schools, colleges, professional bodies; securing professional body accreditation; budgetary control; achieving income generation and meeting applied research targets; contribution t the higher management of both the Faculty and University.

Chair Subject Quality Group Biological and Molecular Sciences
Chair Subject Assessment Board Biological and Molecular Sciences
Vice Chair Programme Assessment Board Biological and Molecular Sciences
Vice Chair of Board of Studies for Dietetics
Vice Chair of Board of Studies for Pre-registration nursing
Member of Faculty Board School of Health and Life Sciences
Vice Chair Faculty International and European Committee
Member of Faculty Applied Research Committee
Chair of Faculty Research Degrees Committee
Member of Faculty Research Committee
Member of University Research Degrees Committee
Chair of Faculty Genetic Modification Safety Committee
Faculty Postgraduate Research Tutor
Faculty European Co-ordinator - SOCRATES
Co-ordinator for University link with Horticulture Research International
Programme Manager / Course Leader MSc by Research Crop Improvement by Molecular Biotechnology (collaborative provision with WarwickHRI)
Module Leader 387BIO Graduate Skills
Module Leader 388BIO Biology Honours Projects
Module Leader M02BIO Applied Plant Biotechnology

QUALITY ASSURANCE ACTIVITIES

Head of Department, responsible for quality assurance for undergraduate and postgraduate provision, achievement, progression and retention
Course review/ approval panel member undergraduate and postgraduate courses across the university
Lead on Subject discipline area for Biological Sciences for QAA Institutional Audit undergraduate programmes, 2004
Contribution to QAA audit postgraduate awards 2006

OTHER EXTERNAL PROFESSIONAL ACTIVITIES:

Executive Committee member Heads of Biological Sciences (2006 – 2009)
External Examiner Undergraduate Biological Sciences Field, Staffordshire University 2004 – to present.
Committee member Education and Training Committee, Institute of Biology, 2003 – to present.
Committee member AQA Subject Advisory Committee (Biological Sciences) 2005 – to present.
External Advisor, MSc Genomics Research course approval event, University of the West of England, 2004; MSc in Forensic Genetics, 2006.
External Advisor, Five-yearly course review Biological Sciences, Environmental Sciences and Nutrition courses, Oxford Brookes University, 2005.
External Consultant, Oxford Brookes University, 2004 for development of the new undergraduate programme in Biomedical Sciences
Consultant Editor International Journal of Cytotechnology 1997 – to date.
Member of the International Advisory Board for the International Journal of Plant Sciences – Annals of Botany, 2001 to date.
Member of The Higher Education Academy (formerly Institute for Learning and Teaching in Higher Education), 2001 to date.
Member of Society for Experimental Biology, 1994 – to date.
Member of Institute of Biology, 1980 – to date.
Member of the Biochemical Society, 1987 – to date.
Member of the American Society for Cell Biology, 1997 – to date.
Member of the Education Network of the Institute of Biology, 1999 to date.
Regular grant reviewer for BBSRC and NERC, 1996 – to date.
Regular paper reviewer for Journal of Cytotechnology and Annals of Botany, 1996 – to date.
Co-ordinator for the Franco-British Joint Research Programme (British Council) 1998-2001.
External PhD Examining (4: 1997, 1998, 1999, 2004); MPhil (2006)

TEACHING AWARDS

University Teaching Excellence Award, awarded by the Vice-Chancellor of the University for innovative teaching and assessment methods in plant biotechnology, May 2000.

RESEARCH GRANTS AND AWARDS

Grants to support research have been awarded by the Royal Society, The Wellcome Trust, Biochemical Society, British Council, society for General Microbiology and Coventry University.

RESEARCH INTERESTS:

Major research interests include:

* Anti-cancer properties of fungal lectins: role of lectins in the treatment of bowel cancer

* Phytomedicinal plants and fungi; flavour biogenesis in the edible mushroom; heterologous protein expression; improving food quality

* The use of the phage display technology to identify molecular targets for natural substances with health benefits

Other ongoing research projects include:

* Biochemical and physiological factors relating to mushroom improvement and senescence (with HRI)

* Development and optimisation of transformation systems for mushrooms (with HRI)

* An understanding of the physiological and molecular mechanisms of salt and drought tolerance

* *In vitro* selection of drought tolerant clones of essential oil producing plants

* A biolistic transformation system for *Brassica oleracea* for transient gene expression studies and the recovery of stable transformants; pathogen-derived resistance (with HRI)

* Advances in understanding the involvement of fungal auxin in mycorrhizal formation and the perception of the auxin signal by plant roots (with University Claude Bernard, Lyon, France

* Biopanning for novel auxin signalling elements in display libraries of plant cDNA on bacteriophage (with HRI)

* Characterisation of microbial populations in porous pavement models (with HRI)

* Molecular and physiological basis of stress tolerance in plants.

NATIONAL AND INTERNATIONAL COLLABORATIONS

Major ongoing research collaborations include: several groups at Horticulture Research International, Wellesbourne; University of Bristol; University Politechnica, Valencia; Claude Bernard University, Lyon; Noble Foundation, Ardmore Oklahoma, USA.

RESEARCH DEGREE SUPERVISION

Supervision of 8 PhD and 9 MSc by Research students to completion; currently supervising 5 PhD students, 3 MSc by Research Students.

INVITED SEMINARS AND CONFERENCE PRESENTATIONS

Presentations at national and international conferences. Invited seminars include: The University of Hong Kong; The Chinese University Hong Kong; Kasetsart University, Bangkok; Ensat, Toulouse; University of Warwick; University of Arizona; Noble Foundation, Ardmore, Oklahoma; University of California at Berkeley; University Claude Bernard, Lyon; Universidad Politecnica, Valencia and University of Manoa in Hawaii.

CONFERENCE / MEETING ORGANISATION

Organisation of the Third Meeting of the UK Auxin Signalling Network, Coventry in 1996.

Institute of Biology Lecture series 2004 / 05 at Coventry University, invited speakers have included:
Professor Steve Jones (Seminar entitled: View from the genes: did Adam meet Eve?);
Dr Tony Sturdee (Seminar entitled: Crytosporidium, intestinal armaggeddon);
Dr Steve Smith (Seminar entitled: Wine appreciation).

PUBLICATIONS:

* **HENDERSON, J.** (1985) Immunogold localization of seed storage proteins Royal Microscopical Society 20 (4) 19.
* **HENDERSON, J.**, PRESS, M.C. and LEE, J.A. (1985) Arylsulphatase activity in peat in relation to acidic deposition Soil Biology and Biochemistry 17 99-103.
* **HENDERSON, J.**, KREIS, M., WILLIAMSON, M.S., FORDE, J., CLARK, J., BUXTON, B., PYWELL, J., MARRIS, C., HARRIS, N. and SHEWRY, P.R. (1986) Differential gene expression in the developing barley endosperm Philisophical Transactions of the Royal Society, Series B 314 .
* **HENDERSON, J.,** GIBBS, M.G., EDWARDS, M.L., CLARKE, V.A. and GARDNER, K.A. (1992) Partial nucleotide sequence of poplar mosaic virus RNA confirms its classification as a carlavirus. Journal of General Virology 73 (7) 1887-1890.
* **HENDERSON, J.** (1994) Authentic processing and targeting of maize auxin-binding protein in the baculovirus expression system Journal of Plant Physiology 105 (4) 1049-1057.
* **HENDERSON, J.,** SATIAT-JEUNEMAITRE, B., NAPIER, R.M. and HAWES, C.R. (1994) Brefeldis A induced disassembly of the Golgi apparatus is followed by disruption of the endoplasmic reticulum in plant cells Journal of Experimental Botany 45 (279) 1347-1351.
* **HENDERSON, J.,** ATKINSON, A.E., LAZARUS, C.M., HAWES, C.R., NAPIER, R.M., MACDONALD, H. and KING, L.A. (1995) Expression of maize auxin-binding protein in continuously expressing insect cell lines FEBS Letters 371 293-296.
* **HENDERSON, J.**, NAPIER, R.M., HAWES, C.R., FRICKER, M.D., VENIS, M.A., TRUEMAN, S. and BOYCE, J.M. (1995) Purification, sequencing and functions of calreticulis from maize Journal of Experimental Botany 46 1603-1614.
* **HENDERSON, J.,** ATKINSON, A.E., HAWES, C.R. and KING, L.A. (1996) Efficient membrane targeting of the chick nicotinic acetylcholine receptor α-submit in stable insect cell lines Cytotechnology 19 37-42.
* **HENDERSON, J.,** MACDONALD, H., LAZARUS, C.M., NAPIER, R.M. and HAWES, C.R. (1996) Protein retention in the endoplasmic reticulum is not compromised by baculovirus infection Cell Biology International Reports 20 (6) 413-422.
* MOHAMED, M., HARRIS, P.J. and **HENDERSON, J.** (1997) Development of protocols for *in vitro* culture of *Tagetes minuta* (L) unknown 48 (Suppl.) 67.
* **J. HENDERSON**, J.B. Bauly, D.A. Ashford, S.C. Oliver, C.R. Hawes, M.A. Venis and R.M. Napier. (1997): Retention of maize auxin-binding protein in the endoplasmic reticulum: quantifying escape and the role of auxin. Planta, **202,** 313 – 323. ISSN 0032-0935.
* M.L. EDWARDS, Y.Y. LIU, W.S. HAWES, **J. HENDERSON** AND J.I. COOPER (1997) Positive and negative sense coat protein gene-mediated protection against poplar mosaic carlavirus in *Nicotianna benthaniana.* **Annals of Applied Biology, 130,** 261 – 270. ISSN 0003 – 4746.

* M.A.H. MOHAMED, P.J.C. HARRIS AND **J. HENDERSON** (1999): An efficient *in vitro* regeneration protocol for *Tagetes minuta.* **Plant cell, tissue and organ culture**. vol. **55:** 211-215. ISBN 0167-6857.
* I.J. PUDDEPHAT, N. THOMPSON, H.T. ROBINSON, P. SANDHU AND **J. HENDERSON** (1999): Biolistic transformation of broccoli *(Brassica oleracea var. italica)* for transient expression of the ß-glucuronidase gene. **Journal of Horticultural Science and Biotechnology 74:** 714 – 720. ISSN 1462 – 0316.
* MAH MOHAMED, PJC HARRIS and **J. HENDERSON** (2000): Effect of drought stress on the yield and composition of volatile oils of drought-tolerant clones of *Tagetes minuta.* **Plant Science vol.** 159: 213 - 222. ISSN 0168 – 9452.
* MOHAMED, M., MARTINEZ-DIAZ, E., QUINTANA, A., HARRIS, P.J.C. and **HENDERSON, J**. (2001) Abstract: Salinity tolerance of tobacco transformed with the halotolerance gene HAL1 **Journal of Experimental Botany** 52 pp. 32 ISSN: 0022 0957
* MOHAMED, M., HARRIS, P.J.C., **HENDERSON, J**. and SENATORE, F. (2002) Effect of drought stress on the yield and composition of volatile oils of drought-tolerant and non-drought-tolerant clones of Tagetes minuta **Planta Medica** 68 pp. 472-474 ISSN: 0032 0943
* COMBET, E., EASTWOOD, G.C., BURTON, K., GRIFFITHS, G. and **HENDERSON, J.** (2003) P5.19 - Cloning lipid dioxygenases involved in mushroom flavour (Abstract) Comparative Biochemistry and Physiology Part A 134 March pp. 1-237 ISSN: 1095 6433
* LEACH, K.A., CHALLEN, M.P., ELLIOTT, T.J. and **HENDERSON, J**. (2003) P10.14 - Progress in Transforming the mushroom Agaricus bisporus: agrobacterium methodologies and the development of novel marker geners (Abstract) Comparative Biochemistry and Physiology Part A 134 March pp. 215 ISSN: 1095 6433.
* LEE, S.C., JARRETT, P., MORGAN, J.A.W., ROPER, D., SERGEANT, M.J. and **HENDERSON, J**. (2003) Insecticidal toxins from Xenorhabdus nepmatophilus Protein and Science 12 (1) March pp. 153 ISSN: 0961 8368.
* LEACH, K.A., CHALLEN, M.P., ELLIOTT, T.J. and **HENDERSON, J.** (2003) Proc. XXII Fungal Genetics Conference, Progress in Transforming the Mushroom Agaricus bisporus: Agrobacterium Methodologies and the Development of Novel Marker Genes, California, USA, The Genetics Society of America. pp. 151 ISBN: 0895 1942
* COMBET, E., BURTON, K.S., EASTWOOD, D.C., GRIFFITHS, G. and **HENDERSON, J**. (2004) Mushroom Flavor Biogenesis in Agaricus bisporus, **Science and Cultivation of Edible and Medicinal Fungi**. pp. 403-409 ISBN: 1 883956 01 13
* **HENDERSON, J**., EASTWOOD, D.C., BAINS, N. and BURTON, K.S. (2004) XVI Superoxide Dismutase-Mushrooms Under Stress!, **Science and Cultivation of Edible and Medicinal Fungi.** pp. 67-73 ISBN: 1 883956 01 13
* LEACH, K.A., ODON, V., ZHANG, C., KIM, H.K., **HENDERSON, J**., WARNER, P.J., CHALLEN, M.P. and ELLIOTT, T.J. (2004) Progress in Agaricus bisporus Transformation: Agrobacterium Methodologies and

Development of Novel Marker Genes. **Science and Cultivation of Edible and Medicinal Fungi.** pp. 93-102 ISBN: 1 883956 01 13

* SENATORE, F., NAPOLITANO, F., MOHAMED, MA-H., HARRIS, PJC., MNKENI, PNS., AND **HENDERSON, J.** (2004) Antibacterial activity of Tagetes minuta L. (Asteraceae) essential oil with different chemical composition. **Flavour and Fragrance.** 19(6): 574 – 578. ISBN 0882 - 5734
* COMBET, E., **HENDERSON, J.**, EASTWOOD, D.C., GRIFFITHS, G. and BURTON, K.S. (2005) Proceedings of the Fifth International Conference on Mushroom Biology and Mushroom Products, Elucidating the Flavour Synthesis Pathway of Agaricus bisporus, Shanghai, **Acta Edulis Fungi.** pp. 120-126 ISBN: 1005 9873
* **HENDERSON, J.**, EASTWOOD, D.C., BAINS, N. and BURTON, K.S. (2005) Proceedings of the Fifth International Conference on Mushroom Biology and Mushroom Products, Superoxide Dismutase - Mushrooms under Stress!, Shanghai, **Acta Edulis Fungi.** pp. 61-65 ISBN: 1005 9873
* **HENDERSON, J.,** HERMAN, B., SREENIVASAPRASAD, S., EASTWOOD, D., and BURTON, K (2005) Heterologous Expression and Characterisation of the *Agaricus bisporus* Lectins Which Inhibit in vitro Proliferation of Human Colon Cancer Cells. **Mol. Biol. Cell** 16(suppl), abstract. (CD-Rom) ISSN 1059-1524.
* KINNE M, ULLRICH R, LIERS C, HOFRICHTER M, SCHOENHERR JI, MORROW, R, **HENDERSON, J.** (2005) Isolation and chromatographic characterisation of humic substances from different origins. Peat and Humic Substance Preparations in Medicine, Veterinary Medicine and Body Care. 2nd Symposium.
* JUNEK,R, KLOCKING R, SCHOENHERR JI, **HENDERSON, J.** (2005) Effect of humic substances on the toxicity of an amphoteric and anon-ionic surfactant in U937 cells. Peat and Humic Substance Preparations in Medicine, Veterinary Medicine and Body Care. 2nd Symposium.
* REDDY SM, HITCHIN S, MELAYAH D, PANDEY AK, RAFFIER C, **HENDERSON, J**, MARMEISSE R, GAY G.(2006) The auxin-inducible GH3 homologue Pp-GH3.16 is down-regulated in Pinus pinaster root systems upon ectomycorrhizal symbiosis establishment. **New Phytologist** Volume 170 (2) pp. 391 – 399 ISBN 0028 – 646X.

Published Conference Proceedings:

* **HENDERSON, J.** and HARRIS, N. (1985) Immunogold localisation of seed storage proteins, Immunogold localisation of seed storage proteins, Proceedings of the Royal Microscopical Society. 19 pp.
* **HENDERSON, J.**, KREIS, M., WILLIAMSON, M.S., FORDE, J., CLARK, J., BUXTON, B., PYWELL, J., MARRIS, C., HARRIS, N. and SHEWRY, P.R. (1986) Philosophical Transactions of the Royal Society, Series B., Differential gene expression in the developing barley endosperm, Philosophical Transactions of the Royal Society.
* **HENDERSON, J.**, SATIAT-JEUNEMAITRE, B., EVANS, D., CROOKES, K., FRICKER, M.D., NAPIER, R.M. and HAWES, C.R. (1993) 51st Annual Meeting of the Microscopy Society of American, Brefeldin A affects the

endomembrane system and vesicle trafficking in higher plants, Microscopy Society of America. 192-193 pp.

* **HENDERSON,** J. (1994) Society for Experimental Biology Annual Meeting, Authentic processing and targeting of active maize auxin-binding protein in the baculovirus expression system, Swansea, UK: Journal of Experimental Biology. Proceedings for the Society for Experimental Biology
* **HENDERSON, J.**, MACDONALD, H., LAZARUS, C.M., HAWES, C.R., NAPIER, R.M. and VENIS, M.A. (1994) Plant Molecular Biology Group. Swansea Meeting, Authentic processing and targeting of active maize ABP1 in the Baculovirus Expression System., Swansea: Proceedings of the Society for Experimental Biology.
* **HENDERSON, J.**, MACDONALD, H., NAPIER, R.M., VENIS, M.A., HAWES, C.R. and LAZARUS, C.M. (1994) Society for Experimental Biology Annual Meeting, Authentic processing and targeting of active maize auxin-binding protein in the baculovirus expression system., Journal of Experimental Biology. Proceedings for the Society for Experimental Biology
* **HENDERSON, J.** (1995) Annual meeting of Society for Experimental Biology, Cellular targeting and secretion of auxin-binding protein using baculovirus vectors and insect cells, St Andrews UK: Journal of Experimental Botany. Journal of Experimental Botany 74 pp.
* **HENDERSON, J.** (1995) 5th International Botanical Microscopy Meeting on Plant Cell Biology., Cellular targeting and secretion of maize auxin-binding protein using baculovirus vectors and insect cells, Oxford: Proceedings of the Royal Microscopical Society. 21 pp.
* **HENDERSON, J.**, HAWES, C.R., NAPIER, R.M., VENIS, M.A., LAZARUS, C.M. and MACDONALD, H. (1995) 5th International Botanical Microscopy Meeting on Plant Cell Biology, Cellular targeting and secretion of maize auxin-binding protein using baculovirus vectors and insect cells, Oxford UK: Proceedings of the Royal Microscopical Society. Proceedings of the Royal Microscopical Society 21 pp.
* **HENDERSON**, J., HAWES, C.R., NAPIER, R.M., VENIS, M.A., LAZARUS, C.M. and MACDONALD, H. (1995) Annual Meeting of the Society of Experimental Biology, Cellular targeting and secretion of auxin-binding protein using baculovirus vectors and insect cells., St. Andrews, Scotland: Journal of Experimental Botany. 74 pp.
* **HENDERSON**, J., NAPIER, R.M. and LAZARUS, C.M. (1997) 36th Annual Meeting/6th International Congress on Cell Biology, Transgene expression in insect cells: comparison of transformation and baculovirus infection, San Francisco, USA: Molecular Biology of the Cell. Molecular Biology of the Cell ISSN 1059-1524 448 pp.
* **HENDERSON, J.**, NAPIER, R.M. and LAZARUS, C.M. (1997) 36th Annual Meeting/6th International Congress on Cell Biology, Transgene expression in insect cells: comparison of transformation and baculovirus infection, Molecular Biology of the Cell.
* N.F. BELLINGHAM, **J. HENDERSON,** J.A.W. MORGAN AND C. WINSTANLEY (1998). Genetic variation in natural populations of *Pseudomonas aeruginosa.* The Society for Experimental biology Annual Meeting. University of York, 23 – 27 March 1998.

* S. HITCHIN, **J. HENDERSON,** R. MARMEISSE, V.CHARVET AND G. GAY (1998): PCR-amplification of *Pinus pinaster* cDNA encoding a putative auxin-binding protein. *Journal of Experimental Botany*Vol **49,** supplement, pg 18. The Society for Experimental biology Annual Meeting. University of York, 23 – 27 March 1998. ISSN 0022 0957.
* N. THOMPSON, **J. HENDERSON** AND I.P. PUDDEPHAT (1998): Transient transformation of *Brassica oleracea* using microprojectile bombardment. *Journal of Experimental Botany* Vol **49,** supplement, pg 17. The society for Experimental biology Annual Meeting. University of York, 23-27 March 1998. ISSN 0022 0957.
* M.A.H. MOHAMED, P.J.C. HARRIS AND **J. HENDERSON** (1998): *In vitro* regeneration *Tagetes minuta* and the morphology of regenerated plants. *Journal of Experimental Botany* Vol **49.** Supplement, pg 17. The Society for Experimental Biology Annual Meeting. University of York, 23 – 27 March 1998. ISSN 0022 0957.
* N. THOMPSON, P. SANDHU, H. ROBINSON, I. PUDDEPHAT AND **J. HENDERSON** (1998): Biolistic transformation of *Brassica oleracea* for the recovery of stable transformed plant cells. XLth International Crucifer genetics workshop, 3 October 3-7, 1998, Montrea, Canada.
* P.S. SHELDON, M.A. VENIS, R.M. NAPIER AND **J. HENDERSON** (1998): Purification, characterization and localization of a FKBP-type immunophilin form higher plants. The American Society for Cell Biology. 38th Annual Meeting, December 11-15, 1998) San Francisco. Supplement to *Molecular Biology of the Cell.* ISSN 1059-1524.
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